PATENT COOPERATION TREATY

Pranslation INTERNATIONAL SEARCHING AUTHORITY Fo: PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 2002-017 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 17.05.2004 PCT/EP2004/005268 19.05.2003 International Patent Classification (IPC) or both national classification and IPC Applicant EBEWE PHARMA GES.M.B.H. NFG.KG This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Box No. 111 Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3 For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/EP Authorized office Telephone No.

Facsimile No.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/005268

Box	No. I	Basis of this opinion
ı.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	. which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	ь.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
	٠.	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or tablets) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
4.	Add	itional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelt	ty (N) Claims 1-10	YES	
		Claims	NO.	
	Invent	ive step (IS) Claims	YES	
		Claims 1-10	NO	
	Indust	rial applicability (IA) Claims 1-10	VES	
		Claims		
2.	Citations	and explanations:		
	1	Reference is made in the present report to the		
	1	•		
		following documents:		
		D1: WO 00/23070 A1 (BEN VENUE LABORATORIES, INC;		
		ANEVSKI, PHILLIP, J) 27 April 2000 (2000-04-27)		
ļ		D2: WO 99/33780 A1 (SCHEIN PHARMACEUTICAL, INC) 8		
		July 1999 (1999-07-08)		
		D3: EP 0 645 145 A (BRISTOL-MYERS SOUIBB COMPANY:		
		SQUIBB BRISTOL MYERS CO) 29 March 1995 (1995-03-29)		
l		SQUIBS BRISIOS MIERO CO, 25 March 1993 (1993-03-29)		
	2	INDEPENDENT CLAIM 1		
	2.1	The present application does not meet the		
ļ		requirements of PCT Article 33(1) because the		
Ì		subject matter of claim 1 does not involve an		
		inventive step within the meaning of PCT Article		
		33(3).		
		Document D1 discloses (the references in brackets		
		relate to this document) a process for purifying		
		non-ionic surface-active substances. Polysorbat 80		
		and Cremophor in a solvent solution are purified		
		with activated carbon and Amberlite ion exchange		

resin. The solubiliser is removed free of pyrogen to

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

give the pure Cremophor. Paclitaxel is dissolved in the purified Cremophor and anhydrous ethanol. The solution is filtered and dispensed into ampoules, which are sealed and tested for stability. The Paclitaxel solution with purified Cremophor is found to be more stable. In place of the Cremophor it is also possible to employ Polysorbat 80 purified in the same way. (Page 2, line 14 - page 3, line 27; page 6, line 7 - page 7, line 28; table 3; page 14, line 3 - page 16, line 9; claims 1, 7-9, 13, 14, 18.)

The subject matter of claim 1 therefore differs from the process disclosed in D1 solely in that, at the time of cationic exchange, the active substance is already present in the solution with Chremophor. As in D1, a stable preparation is obtained.

The problem on which the application is based is therefore an alternative method for the production of a stable injectable formulation comprising an antineoplastic substance, a solvent and, optionally,

The solution consists in treating a formulation comprising an antineoplastic active substance, a solvent and a solubilization agent with a cation exchanger.

a solubilization agent.

This solution cannot be regarded as being inventive, since the sole difference from the prior art is that the active substance is already present in the formulation with solvent and solubilization agent when treated with the cationic exchanger: in D1 (example 1) the Cremophor EL, in solution in